

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P250798

Luminaire Tested: **LD8B60D010 ER8B60840 8LBW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250798  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27941)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B60D010 ER8B60840 8LBW0LI  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 4000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6538.0 lumens  
Efficiency: N/A  
Efficacy: 109.9 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.17  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

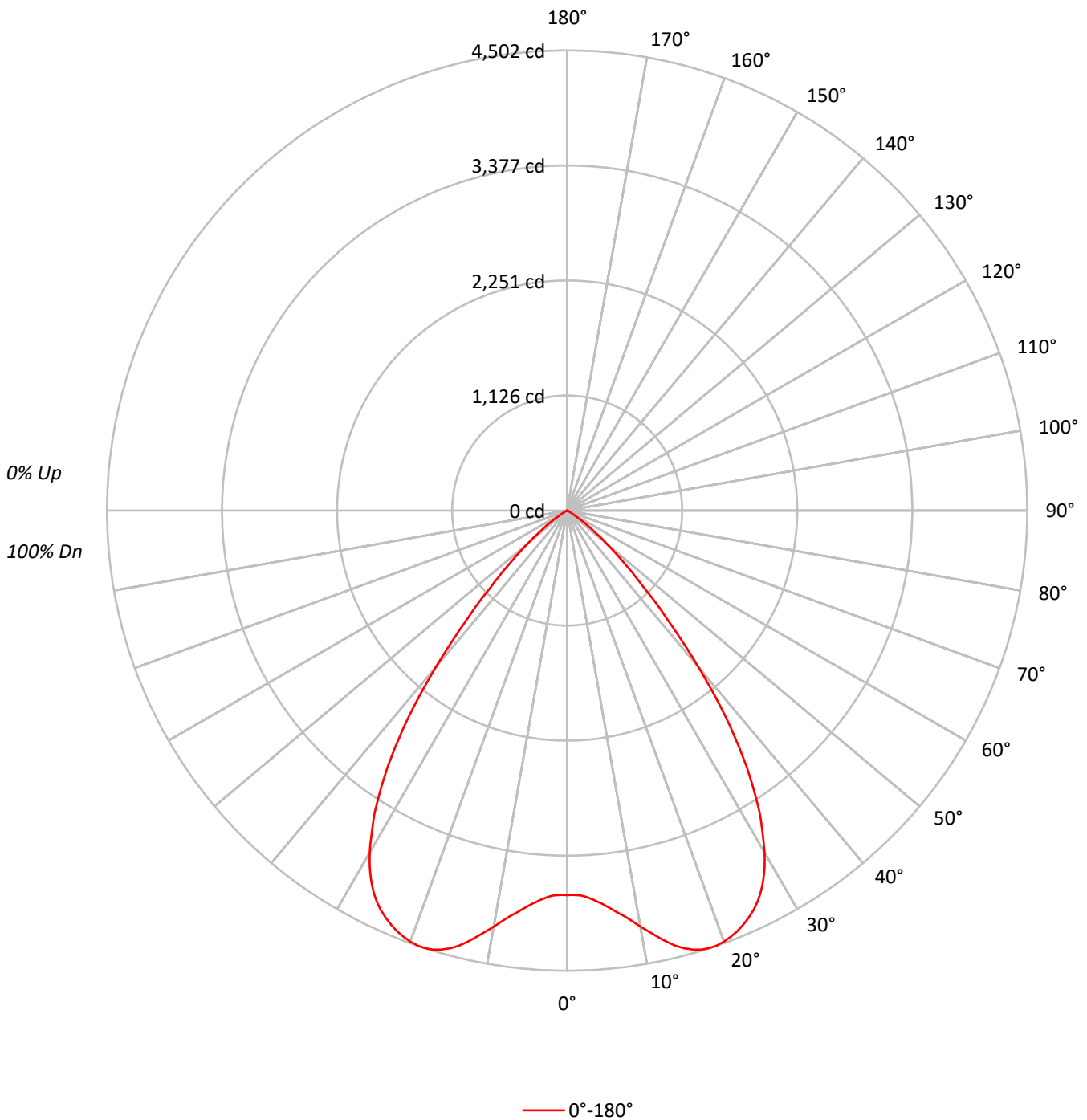
Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |     | 30  |     |     |     | 10  | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 98  | 97  | 96  | 95  | 94  | 92  |
| 2   | 106 | 101 | 97  | 93  | 104 | 99  | 95  | 92  | 96  | 93  | 90  | 93  | 90  | 88  | 90  | 88  | 86  | 84  |
| 3   | 100 | 93  | 87  | 83  | 98  | 92  | 86  | 82  | 89  | 85  | 81  | 86  | 83  | 80  | 84  | 81  | 78  | 77  |
| 4   | 94  | 86  | 79  | 75  | 92  | 84  | 79  | 74  | 82  | 77  | 73  | 80  | 76  | 72  | 78  | 75  | 72  | 70  |
| 5   | 88  | 79  | 72  | 68  | 87  | 78  | 72  | 67  | 76  | 71  | 67  | 74  | 70  | 66  | 73  | 69  | 65  | 64  |
| 6   | 83  | 73  | 66  | 62  | 82  | 72  | 66  | 61  | 71  | 65  | 61  | 69  | 64  | 60  | 68  | 63  | 60  | 58  |
| 7   | 78  | 68  | 61  | 56  | 77  | 67  | 61  | 56  | 66  | 60  | 56  | 64  | 59  | 55  | 63  | 59  | 55  | 54  |
| 8   | 74  | 63  | 56  | 52  | 72  | 62  | 56  | 52  | 61  | 55  | 51  | 60  | 55  | 51  | 59  | 54  | 51  | 49  |
| 9   | 70  | 59  | 52  | 48  | 68  | 58  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 55  | 50  | 47  | 45  |
| 10  | 66  | 55  | 48  | 44  | 65  | 54  | 48  | 44  | 53  | 48  | 44  | 53  | 47  | 44  | 52  | 47  | 43  | 42  |

**AVERAGE LUMINANCE (cd/sqm):**

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 116000 |
| 5°  | 119433 |
| 10° | 129381 |
| 15° | 141561 |
| 20° | 147275 |
| 25° | 146736 |
| 30° | 137638 |
| 35° | 115413 |
| 40° | 80359  |
| 45° | 46025  |
| 50° | 24716  |
| 55° | 10193  |
| 60° | 2535   |
| 65° | 649    |
| 70° | 325    |
| 75° | 214    |
| 80° | 320    |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 377.2  | 5.8       |
| 10°-20°   | 1249.8 | 19.1      |
| 20°-30°   | 1966.5 | 30.1      |
| 30°-40°   | 1870.5 | 28.6      |
| 40°-50°   | 862.4  | 13.2      |
| 50°-60°   | 195.9  | 3.0       |
| 60°-70°   | 12.9   | 0.2       |
| 70°-80°   | 2.6    | 0.0       |
| 80°-90°   | 0.2    | 0.0       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 3593.4 | 55.0      |
| 0°-40°    | 5464.0 | 83.6      |
| 0°-60°    | 6522.3 | 99.8      |
| 0°-90°    | 6538.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6538.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3762 |      |
| 5°  | 3858 | 377  |
| 15° | 4434 | 1250 |
| 25° | 4313 | 1966 |
| 35° | 3066 | 1871 |
| 45° | 1055 | 862  |
| 55° | 190  | 196  |
| 65° | 9    | 13   |
| 75° | 2    | 3    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 3761.8 |
| 1°    | 3760.0 |
| 2°    | 3767.1 |
| 3°    | 3788.6 |
| 4°    | 3820.8 |
| 5°    | 3858.4 |
| 6°    | 3904.9 |
| 7°    | 3954.9 |
| 8°    | 4006.8 |
| 9°    | 4067.6 |
| 10°   | 4132.0 |
| 11°   | 4196.4 |
| 12°   | 4264.4 |
| 13°   | 4328.8 |
| 14°   | 4387.8 |
| 15°   | 4434.3 |
| 16°   | 4468.3 |
| 17°   | 4491.6 |
| 18°   | 4502.3 |
| 19°   | 4500.5 |
| 20°   | 4488.0 |
| 21°   | 4466.5 |
| 22°   | 4439.7 |
| 23°   | 4403.9 |
| 24°   | 4362.8 |
| 25°   | 4312.7 |
| 26°   | 4253.7 |
| 27°   | 4178.5 |
| 28°   | 4089.1 |
| 29°   | 3985.4 |
| 30°   | 3865.5 |
| 32.5° | 3506.0 |
| 35°   | 3065.9 |
| 37.5° | 2554.3 |
| 40°   | 1996.3 |
| 42.5° | 1475.7 |
| 45°   | 1055.4 |
| 47.5° | 747.7  |
| 50°   | 515.2  |
| 52.5° | 329.1  |
| 55°   | 189.6  |
| 57.5° | 94.8   |
| 60°   | 41.1   |
| 62.5° | 16.1   |
| 65°   | 8.9    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  |
|-------|-----|
| 67.5° | 5.4 |
| 70°   | 3.6 |
| 72.5° | 3.6 |
| 75°   | 1.8 |
| 77.5° | 1.8 |
| 80°   | 1.8 |
| 82.5° | 0.0 |
| 85°   | 0.0 |
| 87.5° | 0.0 |
| 90°   | 0.0 |

(END OF REPORT)